

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P837883

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-3HI-35-120-EDD**

Issue Date: 5/21/2024

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

Test Method: LM-79-08
Report Number: P837883
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-ASY2R-LD4-3HI-35-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

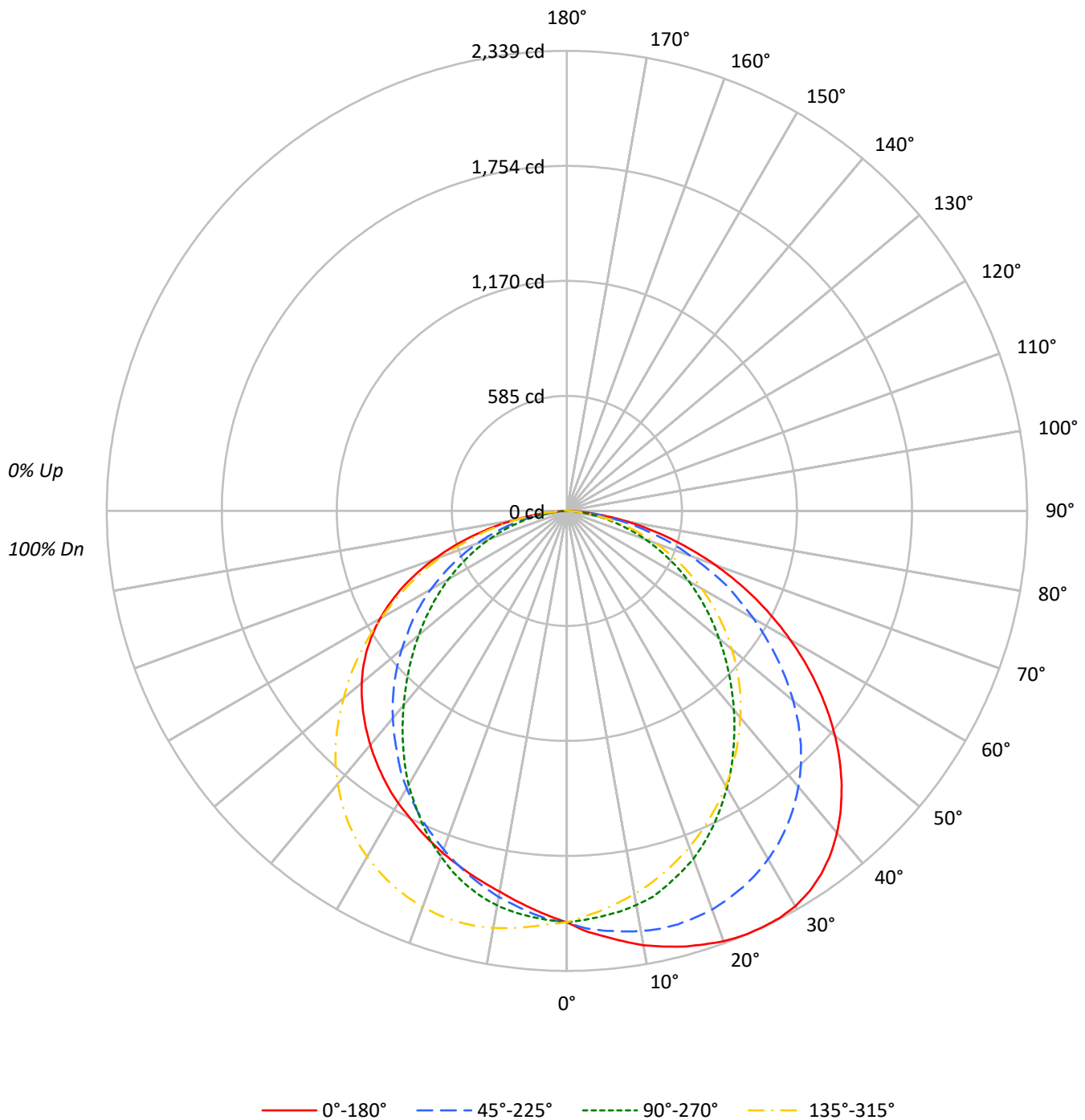
Lumens per Lamp: N/A
Luminaire Lumens: 6136.6 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 66
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	86	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	72	72	70
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	61	61	59
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	52	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	45	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	40	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	35	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	31	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	28	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5628	5628	5628	5628
5°	5866	5588	5483	5597
10°	6127	5560	5372	5567
15°	6390	5489	5319	5490
20°	6669	5389	5295	5358
25°	6945	5239	5295	5185
30°	7213	5056	5331	5000
35°	7405	4848	5384	4772
40°	7503	4640	5459	4535
45°	7518	4428	5565	4317
50°	7447	4226	5701	4114
55°	7293	4038	5828	3926
60°	7064	3842	5906	3742
65°	6748	3616	5875	3532
70°	6303	3351	5666	3290
75°	5672	2988	5200	2973
80°	4809	2503	4370	2540
85°	3344	1658	2773	1701

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.6	3.2
10°-20°	575.1	9.4
20°-30°	881.3	14.4
30°-40°	1071.6	17.5
40°-50°	1114.0	18.2
50°-60°	1006.3	16.4
60°-70°	765.0	12.5
70°-80°	426.5	7.0
80°-90°	98.2	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1655.0	27.0
0°-40°	2726.6	44.4
0°-60°	4846.8	79.0
0°-90°	6136.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6136.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2092	2092	2092	2092	2092	
5°	2172	2069	2030	2072	2172	209
15°	2294	1970	1909	1971	2294	650
25°	2339	1764	1783	1746	2339	1080
35°	2254	1476	1639	1452	2254	1408
45°	1976	1164	1462	1134	1976	1521
55°	1554	861	1242	837	1554	1388
65°	1060	568	923	555	1060	1047
75°	546	287	500	286	546	579
85°	108	54	90	55	108	136
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2091.6	2091.6	2091.6	2091.6	2091.6	2091.6	2091.6	2091.6	2091.6	2091.6	2091.6
2.5°	2138.0	2106.8	2107.2	2134.6	2113.6	2123.8	2094.6	2105.8	2102.4	2104.8	2080.9
5°	2171.7	2138.0	2137.5	2160.9	2137.5	2141.9	2104.8	2112.1	2101.4	2094.6	2068.7
7.5°	2207.3	2173.6	2170.2	2190.7	2159.9	2156.5	2115.5	2115.5	2096.0	2079.0	2054.6
10°	2242.4	2207.8	2203.4	2219.0	2180.9	2169.7	2119.9	2112.1	2086.3	2060.9	2034.6
12.5°	2268.7	2233.6	2230.2	2240.0	2197.0	2176.5	2119.9	2104.8	2066.8	2031.1	2010.6
15°	2293.6	2257.5	2248.3	2253.1	2203.9	2176.5	2113.1	2089.7	2040.9	1994.1	1970.1
17.5°	2311.2	2276.6	2267.3	2266.8	2207.3	2168.2	2098.5	2066.3	2007.7	1951.1	1927.2
20°	2328.8	2294.1	2282.4	2273.6	2206.3	2157.0	2077.0	2033.6	1965.3	1901.8	1881.8
22.5°	2337.5	2301.9	2289.2	2276.1	2200.0	2136.5	2050.7	1995.5	1917.5	1841.8	1825.2
25°	2339.0	2302.4	2288.7	2269.7	2187.3	2112.1	2016.5	1949.7	1862.3	1778.4	1764.3
27.5°	2335.1	2295.1	2281.4	2258.5	2168.2	2082.4	1976.0	1897.5	1803.8	1711.1	1695.9
30°	2321.4	2280.9	2267.8	2238.0	2141.4	2045.8	1931.6	1839.4	1738.9	1640.3	1627.2
32.5°	2294.1	2254.6	2243.9	2214.1	2112.1	2003.3	1879.9	1776.9	1667.2	1573.0	1553.5
35°	2254.1	2214.6	2207.8	2176.5	2071.1	1952.6	1823.3	1708.6	1591.0	1494.9	1475.9
37.5°	2201.9	2168.7	2158.5	2127.7	2022.8	1895.0	1758.4	1634.5	1513.5	1410.0	1398.3
40°	2136.0	2104.8	2097.0	2069.7	1966.7	1831.1	1688.1	1557.9	1433.5	1337.3	1320.8
42.5°	2060.9	2031.6	2027.2	1998.9	1897.5	1760.4	1612.0	1478.3	1350.0	1257.3	1240.7
45°	1975.5	1947.2	1946.2	1919.4	1821.8	1681.8	1532.0	1397.8	1268.5	1172.4	1163.6
47.5°	1881.4	1856.0	1856.0	1831.1	1737.4	1595.4	1449.6	1313.9	1186.6	1101.7	1086.1
50°	1778.9	1755.0	1747.7	1735.5	1644.2	1501.3	1362.7	1232.0	1105.6	1024.6	1009.5
52.5°	1669.6	1649.1	1654.0	1631.5	1543.2	1403.2	1274.9	1139.7	1024.1	950.4	935.3
55°	1554.5	1525.2	1529.6	1521.3	1437.8	1302.2	1176.3	1063.6	944.1	874.8	860.7
57.5°	1434.9	1396.9	1412.5	1407.6	1325.6	1198.8	1086.1	977.3	864.6	800.6	787.0
60°	1312.5	1275.9	1292.0	1287.6	1210.5	1095.3	992.9	891.9	785.5	727.5	713.8
62.5°	1186.6	1152.9	1167.6	1164.1	1093.4	989.5	900.2	807.5	706.0	653.8	641.1
65°	1059.7	1027.5	1040.7	1038.3	972.9	893.8	805.0	720.1	626.0	580.6	567.9
67.5°	929.9	900.2	912.4	912.4	852.4	776.7	709.4	631.8	547.4	508.4	496.7
70°	801.1	773.3	784.1	783.1	732.3	670.9	612.8	543.5	467.9	435.7	425.9
72.5°	671.4	647.0	656.7	655.7	613.3	573.8	516.2	456.2	390.3	364.5	355.7
75°	545.5	522.5	531.8	530.8	496.2	459.1	420.6	370.8	314.2	296.2	287.4
77.5°	425.5	402.0	409.8	409.8	384.5	357.6	326.9	288.4	248.3	228.8	222.5
80°	310.3	299.1	295.2	295.7	278.6	261.0	245.4	208.3	179.1	165.9	161.5
82.5°	203.9	194.7	190.8	191.7	182.0	171.3	161.5	135.6	116.1	108.3	105.9
85°	108.3	101.5	98.1	100.5	98.6	92.7	87.8	70.3	58.1	55.1	53.7
87.5°	34.2	29.8	27.3	36.1	30.7	27.3	26.3	21.0	16.1	16.1	15.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2091.6	2091.6	2091.6	2091.6	2091.6	2091.6	2091.6	2091.6	2091.6	2091.6	2091.6
2.5°	2088.7	2088.7	2069.7	2065.3	2063.3	2065.8	2046.7	2043.3	2070.7	2061.4	2040.4
5°	2072.1	2071.1	2044.3	2039.4	2039.4	2036.5	2015.0	2010.2	2037.5	2029.7	2006.7
7.5°	2051.6	2048.7	2017.0	2013.6	2008.7	2006.7	1982.8	1979.4	2002.8	1998.0	1976.5
10°	2026.7	2023.8	1986.3	1983.8	1978.4	1974.5	1952.1	1949.7	1973.6	1965.8	1948.7
12.5°	1994.1	1988.7	1950.1	1947.7	1943.3	1941.9	1919.9	1918.9	1945.3	1937.5	1919.4
15°	1951.1	1946.7	1903.8	1904.8	1905.3	1905.3	1887.7	1886.7	1912.6	1909.2	1889.6
17.5°	1903.8	1897.9	1857.0	1859.9	1863.3	1867.2	1853.5	1856.0	1883.3	1878.9	1861.3
20°	1850.1	1844.3	1804.3	1812.6	1819.9	1827.7	1818.9	1825.7	1851.1	1849.1	1836.0
22.5°	1790.1	1784.3	1747.2	1759.9	1772.1	1786.7	1782.8	1790.6	1817.4	1816.9	1805.2
25°	1716.9	1718.4	1685.7	1701.3	1721.8	1742.3	1743.8	1756.4	1786.2	1783.3	1772.5
27.5°	1648.6	1650.6	1615.9	1642.3	1669.6	1695.9	1702.3	1719.9	1750.1	1747.7	1738.4
30°	1576.9	1579.3	1545.7	1581.8	1615.0	1647.2	1660.8	1684.7	1715.5	1715.5	1705.7
32.5°	1502.3	1506.6	1471.5	1519.8	1558.4	1595.9	1619.8	1644.7	1679.8	1678.9	1670.6
35°	1425.7	1430.5	1398.3	1459.8	1498.3	1544.2	1574.0	1607.2	1638.4	1638.9	1632.5
37.5°	1347.6	1353.4	1324.2	1391.5	1435.4	1489.6	1527.6	1560.8	1595.4	1597.4	1591.5
40°	1270.0	1276.4	1251.0	1315.9	1371.5	1432.0	1475.9	1514.9	1553.0	1554.0	1550.1
42.5°	1192.4	1199.3	1180.2	1243.7	1306.6	1371.5	1423.2	1467.6	1506.6	1509.1	1504.7
45°	1116.8	1122.7	1109.0	1178.3	1238.8	1309.5	1369.1	1419.3	1458.8	1462.2	1460.8
47.5°	1041.7	1047.0	1034.8	1098.3	1168.0	1243.2	1312.0	1367.6	1409.5	1413.5	1412.5
50°	968.0	972.4	959.2	1025.6	1094.9	1174.9	1246.6	1311.0	1357.8	1361.7	1361.2
52.5°	894.8	899.2	888.0	957.8	1020.7	1105.1	1183.2	1252.9	1299.3	1305.1	1306.1
55°	824.1	826.0	817.2	884.1	945.1	1033.4	1123.2	1191.0	1237.3	1242.2	1245.1
57.5°	753.3	753.8	746.5	810.4	869.0	959.2	1053.4	1124.6	1168.5	1173.4	1177.8
60°	683.1	682.6	674.3	736.2	792.4	881.6	979.7	1050.5	1092.9	1097.3	1103.1
62.5°	613.3	611.8	604.5	661.6	714.3	802.6	901.2	969.5	1010.0	1012.9	1020.7
65°	544.0	542.5	535.7	588.4	636.2	720.6	817.2	882.1	918.7	922.6	921.2
67.5°	475.7	472.8	467.4	514.7	558.2	636.2	728.9	790.9	821.1	824.6	833.8
70°	407.4	404.0	391.8	442.0	480.1	549.9	636.2	691.4	716.7	720.1	718.7
72.5°	340.1	336.7	323.5	369.8	402.0	463.0	540.1	586.0	607.9	610.9	610.9
75°	274.7	272.7	264.4	299.6	326.4	376.2	441.6	479.6	496.7	500.1	499.1
77.5°	211.7	210.3	202.0	232.2	253.2	290.3	343.0	372.8	385.4	389.3	397.6
80°	151.7	151.2	138.1	167.8	177.1	208.3	246.9	269.8	276.6	282.0	287.9
82.5°	97.1	97.6	84.4	109.8	113.7	133.7	157.6	171.7	176.6	181.0	185.4
85°	47.3	49.3	42.0	58.1	58.5	68.8	79.0	84.4	86.4	89.8	93.7
87.5°	12.2	14.1	7.8	16.6	14.6	19.0	22.0	23.4	22.9	25.4	26.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2091.6	2091.6	2091.6	2091.6	2091.6	2091.6	2091.6	2091.6	2091.6	2091.6	2091.6
2.5°	2047.2	2062.9	2055.0	2080.4	2090.2	2074.6	2101.9	2102.4	2082.9	2105.8	2118.5
5°	2015.5	2031.6	2026.7	2053.1	2065.3	2051.6	2084.8	2091.1	2072.1	2098.0	2118.5
7.5°	1983.3	2002.4	1996.0	2022.8	2037.5	2026.7	2062.4	2072.6	2058.0	2086.3	2113.6
10°	1955.5	1971.6	1964.8	1993.1	2005.8	1997.0	2032.1	2051.1	2037.5	2072.1	2104.8
12.5°	1928.2	1941.4	1933.6	1957.0	1969.2	1958.0	2000.9	2018.5	2008.7	2044.8	2086.8
15°	1893.1	1907.7	1897.0	1917.9	1927.2	1917.5	1952.6	1982.8	1970.6	2010.2	2056.5
17.5°	1866.2	1874.5	1859.9	1876.5	1881.8	1868.7	1904.3	1934.0	1925.3	1968.2	2021.9
20°	1836.5	1843.3	1822.8	1832.1	1831.6	1815.0	1847.7	1877.0	1871.1	1918.4	1979.4
22.5°	1803.3	1806.7	1782.8	1784.7	1783.8	1756.4	1785.7	1815.5	1813.0	1860.9	1929.2
25°	1768.2	1768.6	1737.9	1736.9	1726.2	1694.0	1719.9	1753.5	1746.2	1797.9	1869.6
27.5°	1733.5	1728.6	1691.6	1682.8	1665.7	1627.2	1650.1	1680.3	1675.9	1726.7	1806.2
30°	1696.4	1690.1	1644.7	1628.6	1603.7	1559.3	1578.4	1606.7	1609.1	1653.5	1736.9
32.5°	1661.3	1645.2	1595.0	1571.5	1540.3	1488.6	1498.8	1527.6	1531.5	1576.4	1662.3
35°	1615.9	1605.2	1543.2	1503.2	1472.5	1415.9	1426.6	1446.6	1452.5	1496.4	1583.7
37.5°	1573.0	1555.9	1490.1	1441.3	1401.7	1342.2	1345.1	1365.6	1371.5	1415.9	1502.3
40°	1528.6	1504.2	1433.5	1376.4	1331.0	1268.5	1265.1	1286.6	1291.0	1334.4	1412.5
42.5°	1481.3	1452.0	1372.5	1310.0	1257.8	1194.4	1187.6	1206.1	1211.0	1253.4	1330.0
45°	1433.5	1398.3	1310.0	1241.7	1184.6	1119.7	1112.9	1127.1	1134.4	1174.4	1248.1
47.5°	1382.7	1341.7	1245.6	1169.5	1110.5	1045.6	1037.3	1051.4	1057.3	1096.8	1166.6
50°	1329.5	1279.8	1179.3	1095.3	1036.8	972.9	960.7	977.3	982.6	1019.7	1088.0
52.5°	1271.0	1215.9	1108.5	1020.7	962.1	901.2	886.5	902.6	909.0	945.1	1008.0
55°	1209.0	1149.5	1037.3	951.9	888.5	828.9	816.7	823.1	836.8	870.9	929.5
57.5°	1139.3	1080.2	962.1	875.3	814.3	757.2	747.0	752.8	765.5	798.7	851.4
60°	1065.1	1002.6	885.5	798.7	739.7	685.5	676.2	681.6	695.3	725.5	774.3
62.5°	991.9	921.6	806.5	720.1	666.5	616.2	613.8	611.8	624.5	653.8	696.7
65°	903.1	835.8	724.0	642.1	593.3	547.9	538.2	542.5	554.7	581.6	626.5
67.5°	808.0	747.0	639.6	564.0	520.6	480.1	471.8	473.8	486.4	509.9	548.9
70°	707.0	653.3	553.3	485.5	448.9	410.8	405.4	405.9	418.1	438.6	472.8
72.5°	601.1	552.8	465.9	407.9	377.6	350.3	345.4	339.6	350.8	368.4	397.6
75°	493.3	450.8	379.1	331.8	307.9	284.9	280.5	274.7	285.9	301.0	324.0
77.5°	384.5	350.3	294.7	258.1	239.6	222.5	218.6	212.2	223.5	234.7	252.7
80°	278.1	253.2	220.0	181.5	175.2	163.9	160.0	153.2	163.9	171.3	184.9
82.5°	179.5	163.0	143.9	117.1	116.1	107.8	105.9	98.1	107.8	112.2	122.5
85°	90.7	82.9	78.1	59.5	61.5	56.1	55.6	47.3	55.1	57.1	62.9
87.5°	25.9	27.3	24.4	14.6	18.5	17.6	17.6	12.7	17.6	17.6	20.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P837883

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-3HI-35-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2091.6	2091.6	2091.6	2091.6	2091.6	2091.6	2091.6	2091.6
2.5°	2093.6	2101.9	2103.8	2103.3	2108.7	2138.0	2128.2	2138.0
5°	2098.5	2117.0	2121.9	2128.7	2137.5	2170.7	2159.9	2171.7
7.5°	2101.4	2129.2	2139.9	2153.1	2167.3	2204.3	2195.6	2207.3
10°	2101.4	2137.5	2153.1	2175.1	2194.1	2237.0	2228.7	2242.4
12.5°	2092.6	2139.0	2160.9	2191.7	2216.1	2262.4	2259.0	2268.7
15°	2074.6	2131.6	2161.9	2201.4	2231.7	2283.4	2281.9	2293.6
17.5°	2050.2	2119.0	2155.6	2205.3	2243.4	2301.4	2304.9	2311.2
20°	2019.4	2095.1	2142.9	2203.9	2251.7	2315.6	2320.0	2328.8
22.5°	1978.9	2066.3	2123.8	2197.5	2252.6	2321.4	2329.2	2337.5
25°	1931.1	2031.6	2099.0	2185.3	2247.8	2321.0	2331.7	2339.0
27.5°	1876.5	1986.7	2067.2	2165.8	2234.1	2313.1	2326.3	2335.1
30°	1813.0	1938.9	2031.1	2140.4	2215.6	2298.5	2312.7	2321.4
32.5°	1747.7	1886.2	1988.2	2107.7	2188.7	2275.1	2287.3	2294.1
35°	1676.4	1822.3	1936.5	2065.8	2154.1	2237.5	2246.8	2254.1
37.5°	1598.9	1753.0	1877.4	2018.5	2105.3	2185.3	2193.6	2201.9
40°	1518.8	1680.3	1811.1	1960.4	2047.2	2121.4	2130.2	2136.0
42.5°	1438.3	1599.8	1740.3	1892.1	1978.4	2049.7	2055.0	2060.9
45°	1356.9	1516.4	1660.8	1816.5	1901.8	1968.7	1970.6	1975.5
47.5°	1273.9	1430.0	1573.5	1730.1	1814.5	1875.5	1877.4	1881.4
50°	1190.5	1343.7	1480.3	1636.9	1719.4	1783.8	1775.0	1778.9
52.5°	1108.5	1252.9	1392.5	1536.4	1617.9	1675.0	1677.4	1669.6
55°	1028.0	1164.1	1292.5	1431.0	1508.6	1553.0	1551.5	1554.5
57.5°	946.5	1074.4	1191.9	1318.8	1394.4	1436.4	1445.2	1434.9
60°	863.6	983.6	1089.0	1203.7	1276.8	1312.0	1322.2	1312.5
62.5°	781.1	891.4	987.0	1087.0	1154.9	1198.3	1197.3	1186.6
65°	698.7	798.7	884.1	969.0	1028.0	1071.4	1069.5	1059.7
67.5°	622.6	705.0	781.6	850.4	901.6	931.4	941.7	929.9
70°	538.6	609.9	677.2	732.3	774.8	801.6	811.4	801.1
72.5°	454.7	515.2	562.6	615.7	648.4	670.9	681.1	671.4
75°	371.8	421.5	460.1	501.6	524.5	543.5	555.2	545.5
77.5°	291.3	329.8	360.6	390.8	417.2	421.5	431.8	425.5
80°	214.7	242.5	264.9	284.9	304.0	305.9	314.2	310.3
82.5°	143.0	161.5	167.4	188.3	200.5	198.6	206.9	203.9
85°	75.6	86.8	97.1	103.4	110.3	103.9	111.2	108.3
87.5°	25.4	26.8	23.4	33.2	36.6	31.2	35.6	34.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)